Forschungsinstitut für Wärmeschutz e.V.
München

EC CERTIFICATE OF CONFORMITY

No.: K1-0751-CPD-091.0-01-02/09 (E)

In compliance the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the

construction product: **TERVOL**
mineral wool products according to DIN EN 13162:2001-10
(details see annex)

placed on the market by: **Knauf Insulation d.d., 4220 Skofja Loka / Slovenia**

and produced in the factory **Skofja Loka**

is submitted by the manufacturer to a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan and that the approved bodies:

Forschungsinstitut für Wärmeschutz e.V. München - Identification No. 0751 and
Laboratoire National D'Essais (LNE) Paris – Identification No. 0071
MPA Braunschweig - Identification No. 0761

performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control and an audit-testing of samples taken at the factory, on the market or at the construction site.

This certificate attests that all provisions concerning the attestation of conformity and the performances described in Annex ZA of the standard

DIN EN 13162:2001-10

were applied and that the product fulfils all the prescribed requirements.

This certificate was first issued on 01 October 2003 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly.

Gräfelfing, 08 July 2009

Head of Certification Body

Dipl.-Ing. (FH) Wolfgang Albrecht

Forschungsinstitut für Wärmeschutz e. V. München
Lochhamer Schlag 4 · 82166 Gräfelfing

Telefon +49 (0)89 8 58 00 –0 · Telefax +49 (0)89 8 58 00 – 40
info@fiw-muenchen.de · www.fiw-muenchen.de

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Annex EC Certificate of Conformity

No.: K1-0751-CPD-091.0-01-02/09 (E)

Construction product: **TERVOL**
Mineral wool products
according to DIN EN 13162:2001-10

Placed on the market by: **Knauf Insulation d.d., 4220 Skofja Loka / Slovenia**

produced in the factory: **Skofja Loka**

At the date of issue of this annex, the confirmation of conformity applies to the following products.

λ-Stufe (λ_D) W/(m·K)	Reaction to fire class	Product Tervol — Line 1
0,035	**A1**	Tervol DP 5 to DP 11 (1)(2)(3)(4)(5)(6)(1+5)(1+6) Tervol Trio 035 (8) Tervol FPL 035 (1)(2)(3)(4) Tervol FP (1)(3) Tervol TP 20/15 Tervol BS 7 to BS 15 (5) (6) Tervol Panel Chimenea S
0,037	**A1**	Tervol DP 4 (1)(2)(3)(4)(5)(6)(1+5)(1+6) Tervol DP 12 (1)(2)(3)(4)(5)(6)(1+5)(1+6) Tervol TP 25/20 to TP 50/45 Tervol TPS 20/17 to TPS 53/50 Tervol TP-ST 12/10 to TP-ST 32/30 Tervol BS 15,5 to BS 18,5 (5) (6)
0,039	**A1**	Tervol DP 3 (1)(2)(3)(4) Tervol FPL (1)(3) Tervol DP 13 to DP 14 (1)(2)(3)(4)(5)(6)(1+5)(1+6) Tervol FP-D Tervol DDP RT or DPP RT Tervol FP-PT
0,040	**A1**	Tervol DP 15 to DP 18 (1)(2)(3)(4)(5)(6)(1+5)(1+6)

orientated fibres

0,040	**A1**	Tervol DP-LX 9 (10) (e) Tervol DP-LX 9,5 (10) (e)
0,041	**A1**	Tervol DP-LX 10 (10) (f)
0,042	**A1**	Tervol DP-LX 11 (10) (g) Tervol DP-LX 12 (10) (h)
0,044	**A1**	DP-LX 13,5 (10) (i)

facings-options

(1) GS = VN glas fleece - black
(2) 2GS = 2VN = glas fleece - black – on both sides
(3) GW = VB = glas fleece - white
(4) 2GW = 2VB = glas fleece - white - on both sides
(5) A or AL = Aluminium foil
(6) ALR = A-PRP = Aluminium foil with mesh
(1+5) AL-GS = AL-VN = glas fleece - black + aluminium foil
(1+6) ALR-GS = ALR-VN = glas fleece black + aluminium foil with mesh

shape options:

(7) Wedge
(8) Triangle
(9) with slit
(10) with join

Coating

(11) with inorganic coating

compressive stress (10%)

(a) CS(10)50 thickness 30-50 mm
CS(10)70 thickness >50-140 mm
(b) CS(10)50 thickness 30-50 mm
CS(10)60 thickness >50-140 mm
(c) CS(10)90 thickness >50 mm
(d) CS(10)50 thickness 60-140 mm
(e) CS(10)40
(f) CS(10)50
(g) CS(10)60
(h) CS(10)70
(i) CS(10)80

Water absorption – WS and WL(P)
all products with exception of Tervol FP-PL-B

Reaction to fire:
all products - class A1

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λ-class (λ_D) W/(m·K)	Reaction to fire class	Product Tervol Line 2
0,035	**A1**	Tervol DP 5 to DP 11 (1)(2)(3)(4)(5)(6)(1+5)(1+6) Tervol Trio 035 (8) Tervol FPL 035 (1)(2)(3)(4) Tervol FP (1)(3) Tervol TP 20/15
0,037	**A1**	Tervol DP 4 (1)(2)(3)(4)(5)(6)(1+5)(1+6) Tervol DP 12 (1)(2)(3)(4)(5)(6)(1+5)(1+6) Tervol DP 7-blocks to DP 11-blocks Tervol DP 10 PANEL to DP 12 PANEL Tervol TP 25/20 to TP 50/45 Tervol TPS 20/17 to TPS 53/50 Tervol TP-ST 12/10 to TPS-ST 32/30
0,039	**A1**	Tervol DP 13 and DP 14 (1)(2)(3)(4)(5)(6)(1+5)(1+6) Tervol FP-D Tervol DDP RT or DPP RT (d) Tervol FP-PT Tervol Panel Cubierta (j) / Termotoit RD (j)
0,040	**A1**	Tervol DP 15 to DP 18 (1)(2)(3)(4)(5)(6)(1+5)(1+6) Tervol DDP or DPP (a) Tervol DDP-K or DPP-K (7) (b) Tervol DDP-afschot (7) (b)
0,041	**A1**	Tervol DDP-S (c)
		orientated fibres
0,040	**A1**	Tervol FP-PL
0,043	**A1**	Tervol DP 10 Lamella
0,046	**A1**	Tervol DP 12 Lamella

facings-options

(1) GS = VN glas fleece – black
(2) 2GS = 2VN = glas fleece – black – on both sides
(3) GW = VB = glas fleece – white
(4) 2GW = 2VB = glas fleece – white – on both sides
(5) A or AL = Aluminium foil
(6) ALR = A-PRP = Aluminium foil with mesh
(1+5) AL-GS = AL-VN = glas fleece – black + Aluminium foil
(1+6) ALR-GS = ALR-VN = glas fleece black + Aluminium foil with mesh

shape options

(7) wedge
(8) triangle
(9) with slit
(10) with join

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coating
(11) with inorganic coating

compressive stress (10%)
(a) CS(10)50 thickness 30-50 mm
CS(10)70 thickness >50-140 mm
(b) CS(10)50 thickness 30-50 mm
CS(10)60 thickness >50-140 mm
€ CS(10)90 thickness >50 mm
(d) CS(10)50 thickness 60-140 mm
€ CS(10)40
(f) CS(10)50
(g) CS(10)60
(h) CS(10)70
(i) CS(10)80
(j) CS(10)30 thickness 40-50 mm

Water absorption - WS and WL(P)
all products with exception of Tervol FP-PL-B

Reaction to fire:
all products - class A1

Gräfelfing, 08 July 2009

Head of Certification Body

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